

TCEQ 2010 Stream Segments

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Identification_Information:

Citation:

Citation_Information:

Originator: Texas Commission on Environmental Quality

Publication_Date: 07/01/2011

Title: SW_ADM.TCEQ_SEG_IMPAIRMENT

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage:

Description:

Abstract:

This layer depicts the official TCEQ Segments at the segment level for the State of Texas as listed in Title 30, Chapter 307 of the Texas Administrative Code (TAC), also known as the Surface Water Quality Standards. These are streams and waterbodies that have been individually defined by the TCEQ and assigned unique identification numbers. Intended to have relatively homogeneous chemical, physical, and hydrological characteristics, a segment provides a basic unit for assigning site-specific standards and for applying water quality management programs of the agency.

Both "classified" and "unclassified" segments have been included in this layer. Classified segments, also referred to as designated segments, refer to water bodies that are protected by site-specific criteria. The classified segments are listed and described in Appendix A and C of Chapter 307.10. The site-specific uses and criteria are described in Appendix A. Classified waters include most rivers and their major tributaries, major reservoirs, and estuaries. Unclassified waters are those smaller water bodies that do not have site-specific water quality standards assigned to them, but instead are protected by general standards that apply to all surface waters in the state.

This layer also identifies which segments and water bodies have been assessed in the DRAFT 2010 Texas Integrated Report for Clean Water Act Sections 305 (b) and 303 (d). An impaired segment is a water body included in Category 5. Water bodies in Category 5 do not meet applicable water quality standards or are threatened for one or more designated uses by one or more pollutants.

Purpose:

General purpose use; to support agency-wide policy decisions regarding surface water quality in the State of Texas. Due to the various scales inherent from using multiple sources in the creation of this dataset, this layer should not be used for making important decisions at scales greater than 1:250,000.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 07/01/2011

Time_of_Day: unknown

Currentness_Reference: 2010 Integrated Report

Status:

Progress: In work

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -106.629856

East_Bounding_Coordinate: -93.507927

North_Bounding_Coordinate: 36.492148

South_Bounding_Coordinate: 25.837157

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Streams

Theme_Keyword: classified segments

Theme_Keyword: unclassified segments

Theme_Keyword: TSWQS

Theme_Keyword: Texas Surface Water Quality Standards

Theme_Keyword: water bodies

Theme_Keyword: rivers

Theme_Keyword: Reaches

Theme_Keyword: oceans

Theme_Keyword: beaches

Theme_Keyword: oyster waters

Theme_Keyword: reservoirs

Theme_Keyword: estuaries

Access_Constraints: None

Use_Constraints:

These data are not suitable for high precision measurement applications or surveying. No other claims are made to the accuracy or completeness of the data or to its suitability towards a particular use.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Texas Commision on Environmental Scientist

Contact_Person: Jill Csekitz

Contact_Address:

Address_Type: mailing address
Address: P.O. Box 13087
City: Austin
State_or_Province: Texas
Postal_Code: 78711-3087
Country: USA

Contact_Voice_Telephone: 512-239-3136

Contact_Electronic_Mail_Address: Jill.Csekitz@tceq.texas.gov

Data_Set_Credit:

Acknowledgement of the Texas Commission on Environmental Quality is appreciated on any products using this dataset.

Native_Data_Set_Environment:

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcCatalog 9.3.1.4000

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

All attribute fields were derived from NHD shapefiles and TXBAD. The attributes from these two layers are based directly on the SEGID database maintained by the Surface Water Quality Monitoring Team of TCEQ.

Logical_Consistency_Report:

Points, nodes, lines, and areas conform to topological rules. Lines intersect only at nodes, and all nodes anchor the ends of lines. Lines do not overshoot or undershoot other lines where they are supposed to meet. There are no duplicate lines. Lines bound areas and lines identify the areas to the left and right of the lines. Gaps and overlaps among areas do not exist. All areas close.

Completeness_Report:

All segments were verified with the SEGID database maintained by the Surface Water Quality Monitoring Team. No segments were omitted. The dataset was found to be complete.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Statements of horizontal positional accuracy are based on accuracy statements made for U.S. Geological Survey topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For horizontal accuracy, this standard is met if at least 90 percent of points tested are within 0.02 inch (at map scale) of the true position. Additional offsets to positions may have been introduced where feature density is high to improve the legibility of map symbols. In addition, the digitizing of maps is estimated to contain a horizontal positional error of less than or equal to 0.003 inch standard error (at map scale) in the two component directions relative to the source maps. Visual comparison between the map graphic (including digital scans of the graphic) and plots or digital displays of points, lines, and areas, is used as control to assess the positional accuracy of digital data. Digital map elements along the adjoining edges of data sets are aligned if they are within a 0.02 inch tolerance (at map scale). Features with like dimensionality (for example, features that all are delineated with lines), with or without like characteristics, that are within the tolerance are aligned by moving the features equally to a common point. Features outside the tolerance are not moved; instead, a feature of type connector is added to

join the features.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

Statements of vertical positional accuracy for elevation of water surfaces are based on accuracy statements made for U.S. Geological Survey topographic quadrangle maps. These maps were compiled to meet National Map Accuracy Standards. For vertical accuracy, this standard is met if at least 90 percent of well-defined points tested are within one-half contour interval of the correct value. Elevations of water surface printed on the published map meet this standard; the contour intervals of the maps vary. These elevations were transcribed into the digital data; the accuracy of this transcription was checked by visual comparison between the data and the map.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: U.S. Geological Survey
Publication_Date: Unknown
Title: National Hydrography Dataset
Publication_Information:

Publication_Place: Sioux Falls, SD
Publisher: USGS

Online_Linkage: [<http://nhd.usgs.gov/>](http://nhd.usgs.gov/)

Type_of_Source_Media: online
Source_Citation_Abbreviation: NHD
Source_Contribution: Primary reference for locating streams and waterbodies

Source_Information:

Source_Citation:

Citation_Information:

Originator: National Geographic Society
Publication_Date: December 2009
Title: USA Topographic maps
Publication_Information:

Publisher: National Geographic Society

Online_Linkage:
[<http://www.arcgis.com/home/item.html?id=99cd5fbd98934028802b4f797c4b1732>](http://www.arcgis.com/home/item.html?id=99cd5fbd98934028802b4f797c4b1732)

Type_of_Source_Media: online
Source_Citation_Abbreviation: NatGeo
Source_Contribution: Secondary reference for locating water bodies

Source_Information:

Source_Citation:

Citation_Information:

Originator: Microsoft Corporation

Publication_Date: 2010

Title: Bing maps

Online_Linkage: <<http://www.esri.com/software/arcgis/arcgisonline/bing-maps.html>>

Type_of_Source_Media: online

Source_Citation_Abbreviation: Bing

Source_Contribution: Tertiary source for locating water bodies

Process_Step:

Process_Description:

This layer was derived from four layers: Stream Segs, Reservoir Segs, Beach Segs, and Oyster Water Segs. The latter three layers were converted into line features and each layer was appended onto this feature class.

Source_Used_Citation_Abbreviation:

K:\SWQM_GISDAT\2008 Assessment Segment

Updates\Assessor_Additions\2010_waterbody_additions_lines

Process_Step:

Process_Description:

Throughout the creation process, several revisions were made to the segments layer. Some were corrections found in a secondary review process and others were modified according to the final list of approvals from the EPA. The segments that were deleted can be found in the attribute table, but have no spatial information. A listing of these revisions is also provided below: 0839A_01 Clear Creek (unclassified water body): This is a duplicate of segment 0823C. Possible retirement under review. 0809_13 Eagle Mountain Reservoir: Retired-Non Existent Remainder 1209_06 Navasota River Below Lake Limestone: Retired-Non Existent Remainder 0820_03 Lake Ray Hubbard: Retired-Non Existent Remainder 0401_08 Caddo Lake: Retired-Non Existent Remainder 1806A_03 Camp Meeting Creek (unclassified water body): Retired-Non Existent Remainder 0830_04 Benbrook Lake: Retired-Non Existent Remainder 1007R_04 Hunting Bayou Above Tidal (unclassified water body): This is a duplicate of 1007_03, revision under review. 1007R_03 Hunting Bayou Above Tidal (unclassified water body): This is a duplicate of 1007_03, revision under review. 1007R_02 Hunting Bayou Above Tidal (unclassified water body): This is a duplicate of 1007_03, revision under review. 1007R_01 Hunting Bayou Above Tidal (unclassified water body): This is a duplicate of 1007_03, revision under review.

Process_Step:

Process_Description: Metadata imported.

Source_Used_Citation_Abbreviation: C:\WINDOWS\TEMP\xml696.tmp

Process_Date: 20110719

Process_Time: 09285500

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 1332

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000
Longitude_Resolution: 0.000000
Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodetic Reference System 80
Semi-major_Axis: 6378137.000000
Denominator_of_Flattening_Ratio: 298.257222

Vertical_Coordinate_System_Definition:

Altitude_System_Definition:

Altitude_Resolution: 1.000000
Altitude-Encoding_Method:
Explicit elevation coordinate included with horizontal coordinates

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: SW_ADM.TCEQ_SEG_IMPAIRMENT

Attribute:

Attribute_Label: OBJECTID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:

Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: SHAPE
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: SEG_ID

Attribute_Definition:

A unique 4 to 5 digit identification number as it appears in the Texas Surface Water Quality Standards. The first two digits indicate the river basin within which the segment can be found. SEG-IDs with a letter suffix indicate that the segment is unclassified.

Attribute_Definition_Source: TCEQ

Attribute:

Attribute_Label: SIZE_

Attribute_Definition: The size of each waterbody

Attribute:

Attribute_Label: SEG_NAME

Attribute_Definition: The name of the waterbody

Attribute_Definition_Source: TSWQS, TXBAD

Attribute:

Attribute_Label: SZ_UNIT

Attribute_Definition: The unit of calculated size

Attribute:

Attribute_Label: NOTES

Attribute:

Attribute_Label: Aquatic_Life_Use

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: FS

Enumerated_Domain_Value_Definition: Fully Supporting

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: NS

Enumerated_Domain_Value_Definition: Not Supporting

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: NA

Enumerated_Domain_Value_Definition: Not Assessed

Attribute:

Attribute_Label: Recreation_Use
Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: FS,NS,NA
Enumerated_Domain_Value_Definition: See Aquatic Life Use

Attribute:

Attribute_Label: General_Use
Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: FS,NS,NA
Enumerated_Domain_Value_Definition: See Aquatic Life Use

Attribute:

Attribute_Label: Fish_Consumption_Use
Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: FS,NS,NA
Enumerated_Domain_Value_Definition: See Aquatic Life Use

Attribute:

Attribute_Label: Public_Water_Supply_Use
Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: FS,NS,NA
Enumerated_Domain_Value_Definition: See Aquatic Life Use

Attribute:

Attribute_Label: Oyster_Waters_Use
Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: FS,NS,NA
Enumerated_Domain_Value_Definition: See Aquatic Life Use

Attribute:

Attribute_Label: Recreational_Beaches
Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: FS,NS,NA
Enumerated_Domain_Value_Definition: See Aquatic Life Use

Attribute:

Attribute_Label: SEG_CAT

Attribute_Definition: The water quality category assigned to each segment.

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: All standards are attained

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 2

Enumerated_Domain_Value_Definition: Some standards are attained

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 3

Enumerated_Domain_Value_Definition:

Insufficient or no data and information to determine if any standard is attained

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 4

Enumerated_Domain_Value_Definition:

Standard is not attained or nonattainment is predicted in the near future due to one or more parameters, but no TMDLs are required

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 5

Enumerated_Domain_Value_Definition:

Standard is not attained or nonattainment is threatened in the near future for one or more parameters

Attribute:

Attribute_Label: SEG_DESCRIPTION

Attribute:

Attribute_Label: SHAPE.LEN

Overview_Description:

Distribution_Information:

Resource_Description: Downloadable Data
Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 55.349

Metadata_Reference_Information:

Metadata_Date: 20110728

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Texas Comission on Environmental Quality

Contact_Person: Jill Csekitz

Contact_Address:

Address_Type: mailing address

Address: P.O. Box 13087

City: Austin

State_or_Province: Texas

Postal_Code: 78711

Country: USA

Contact_Voice_Telephone: 512-239-3136

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

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